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50X1-HUM

Height, without load - 1,670
Base - 3,200
Track between front wheels - 1,460
" " rear " - 1,500
Maximum speed (km/hr) - 125
Dry weight of car (kg) - 1,800
Type of fuel - Automobile gasoline A-70
Gasoline consumption per 100 km (liters) - 18-19
Engine - 6 cylinder -- 82 x 110
Cylinder volume (liters) - 3.48
Compression ratio - 6.7 : 1
Maximum speed at 3,600 rpm - 95
Maximum torque - 22.5 kg meters
Fluid flywheel - Stamped, nonsectional, reinforced
Transmission - Two-range, with three forward gears and one reverse
Gear ratios
First - 3.115
Second - 1.772
Third - 1.000
Reverse - 4.000
Rear axle - Hypoid, flanged half-axes
Gear ratio of rear axle - 4.55 (41 : 9)
Wheels - 6--L x 15
Steering gear - Globoid, worm and double-roller type
Gear ratio of steering wheel - 18.2
Brakes - Shoe-type, hydraulic drive
Ignition - Battery, circuit voltage of 12 volts

NEW ATTACHMENTS ELIMINATE AUXILIARY OPERATIONS -- Moscow, Pravda, 31 Oct 50

The Saratov Serp i Molot Plant is currently engaged in a campaign to reduce the amount of time incidental to the preparation of parts for machining. At the initiative of the plant's party organization, a number of conferences took place

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on the basis of allied shop activities. In the course of these, it was found that the time spent in machining operations ranged only between 28 and 49 percent while the auxiliary operations of mounting a part on the machine tool and removing it after machining took 51-72 percent of the time.

Following this discovery, the plant proceeded to equip its machines with all sorts of attachments in order to cut down the auxiliary time. Special attention was given to the operation of fixing the part in the machine tool. Designers G. Yegorov and A. Vasilyev devised a number of clamping chucks, each for a group of similar parts. A combined diaphragm and draw-in chuck used in conjunction with pneumatics proved particularly effective. Productivity was also raised through the application of multiposition attachments in milling the flat tops of cylinder blocks. As a result, actual machining time in milling operations has been raised to 90 percent of total machine tool time.

The introduction of what amounts to a semiautomatic method of operation necessitated in some instances a change in the design of machine tools. Such a change in one type of machine tool made the machining of valve-stem guide bushings completely automatic. As a result, productivity was increased five times.

AUTO REPAIR PLANT LAGS -- Tallin, Sovetskaya Estoniya, 15 Nov 50

Although the Tallin Sirp ya Vassar Automobile Repair Plant showed excellent production indexes in the past, winning twice the Red Banner of the Council of Ministers Estonian SSR, it failed to meet the July plan and has become a lagging enterprise. Its management, including Director Konza, attribute the condition to excessive norms posed by the plan, inadequate equipment, and a lack of trained personnel.

However, facts show that existing equipment is utilized only to the extent of 70 percent. Nothing is done to raise the technical qualifications of its workers; Stakhanovite schools have not been established. Innovators' suggestions are disregarded. The plant is acquiring a bad reputation for the low quality of its repairs.

The Main Administration of Automobile Transport, to which this plant is subordinate, is doing nothing to improve the situation.

SELL CARS, MOTORCYCLES TO KARAGANDA MINERS -- Alma-Ata, Kazakhstanskaya Pravda, 3 Nov 50

During the summer of 1950, the Karaganda store of Avtotraktorosbyt (Automobile and Tractor Sales) Trust sold several hundred cars and motorcycles to the miners of this region for private use.

Tbilisi, Zarya Vostoka, 11 Nov 50

The Tbilisi store of Glavavtotraktorosbyt has received 170 Moskviches.

AUTO PARK UNABLE TO GET SPARE PARTS -- Moskovskaya Pravda, 11 Oct 50

The First Moscow Automobile Park, which in 1947, was the first to receive ZIS-154 diesel buses produced by the Moscow Automobile Plant imeni Stalin, now consumes on the average only 44 liters of diesel fuel per 100-kilometer run as compared with the 56 prescribed by the norm.

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However, the park could use the vehicles to even better advantage if its supply of spare parts for fuel apparatus, engines, and low-voltage equipment were less erratic. The Moscow ATE-1 (Automobile and Tractor Electrical Equipment Plant) is apparently interested in producing only whole starters and generators, but not spare parts to these.

Also, the park receives very few pistons and piston rings, and those received are of poor quality.

BEARING PLANT BOOSTS TOOL SPEEDS -- Vechernyaya Moskva, 2 Nov 50

Hundreds of machine tools were converted to high-speed metal cutting at the Moscow First State Bearing Plant during 1950. The speed of automatics has been raised from 40 to 75 meters per minute and that of turret lathes to 200 meters per minute. As a result, 213,000 kilowatt-hours of electric current have been saved.

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